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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|-------------------|
| 09/482,896 | 01/14/2000 | Masahiko Yamada | Q56529 | 7640 |
| 7590 | 10/25/2004 | | EXAMINER | |
| Sughrue, Mion, Zinn, Mackpeak & Seas PLLC 2100 Pennsylvania Avenue N. W. Washington, DC 20037-3202 | | | | DASTOURI, MEHRDAD |
| | | ART UNIT | PAPER NUMBER | 2623 |

DATE MAILED: 10/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------|------------------------|---------------------|
| Advisory Action | Application No. | Applicant(s) |
| | 09/482,896 | YAMADA, MASAHIKO |
| | Examiner | Art Unit |
| | Mehrdad Dastouri | 2623 |

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 19 August 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) The period for reply expires 3 months from the mailing date of the final rejection.
- b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. The proposed amendment(s) will not be entered because:
 - (a) they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) they raise the issue of new matter (see Note below);
 - (c) they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____.

3. Applicant's reply has overcome the following rejection(s): _____.
4. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See attached.
6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: _____.

Claim(s) withdrawn from consideration: _____.

8. The drawing correction filed on _____ is a)a) approved or b)b) disapproved by the Examiner.

9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s). _____.

10. Other: _____.

MEHRDAD DASTOURI
PRIMARY EXAMINER

DETAILED ACTION

1. Applicant's arguments have been fully considered but they are not persuasive. Applicant argues in essence that prior art of record (Ito) does not suggest or disclose processing the image signal based on the picture element density of the original image. The Examiner disagrees and indicates Ito's invention clearly disclose a transformation functions defining parameters for the transformation functions on the basis of both the picture element intensity (brightness resolution, i.e., pixel values) and picture element density (spatial resolution) of the original image (Figure 1, spatial and optical resolution transformation; Formulas 1-3; Page 2, Lines 37-59, Page 3, Lines 1-22; Formula 6; Figures 2- 4, Page 8, Lines 20-51 (Signals B_k in Figures 2 and 4 are derived from pixels' density (spatial resolution) transformation); Page 10, Lines 53-59, Page 11, Lines 1-19. S_{proc} or the signal obtained from the frequency emphasis processing (transformed signal) is a function of S_{org} or original image signal that indicates the image density as described in Page 3, Lines 8-22.).

Regarding Applicant's arguments concerning Claims 3, 10 and 17, f_n functions depicted in Figure 51 (referred to in Page 25, Lines 28-310 are non-linear functions.

Regarding Applicant's arguments concerning Claims 108, 111 and 114, Column 3, Lines 15-32 of "Ito '447" discloses conversion of radiation image recorded on a stimulable phosphor sheet to electric image signals. The electronic image signals information (pixels' information) include both the picture element intensity (brightness

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resolution, i.e., pixel values) and picture element density (spatial resolution), as disclosed in Figures 4-7 of "Ito '447" and similar figures in "Ito EP-0766 202".

Mehrdad Dastouri
Primary Examiner
Art Unit 2623
October 19, 2004

MEHRDAD DASTOURI
PRIMARY EXAMINER

Mehrdad Dastouri